

About MAT Quick Installation Guide

Meridian Administration Tools (MAT) is a portfolio of applications which allow the Meridian 1 system administrator to manage Meridian 1 switches.

This guide provides standard instructions for installing or upgrading to MAT 5. It is intended for experienced PC/Windows 95 users. If you are a less experienced user or want more detailed installation instructions, please refer to the *MAT 5 Common Services User Guide*.

Who should use this guide

Use this guide to install MAT 5 if you are experienced and comfortable working with PC systems using Windows 95. For example, you should know how to use Windows 95 to perform the following types of tasks:

- Navigate directories and move files using the Windows 95 Explorer
- Use the Control Panel to add or remove programs and add network software
- Install and configure a modem if you are using a serial connection to the Meridian 1
- Map a network drive if you are installing MAT on a network

Important! If you are new to Windows 95 or PC systems, follow the instructions provided in the *MAT 5 Common Services User Guide*. The user guide provides detailed illustrations and information to help less experienced users through a MAT 5 installation or upgrade.

What this guide contains

This guide provides instructions for:

- Preparing for MAT 5 installation
- Installing the MAT 5 software
- Validating the MAT 5 installation
- Upgrading from an earlier version of MAT 5
- Adding MAT applications or licenses to an existing MAT 5 installation

Conventions used in this guide

This guide uses the following typographical conventions:

- Angle brackets denote a single keyboard key. For example, <Esc> denotes the Escape key, labeled **Esc** on PC keyboards. A series of angle brackets denote keyboard keys to use simultaneously.
- **This font** is used to designate information you are to enter, buttons you are to click, or menu selections you are to choose.
- Hot keys—Menu commands are available using both the mouse and the keyboard. Menu items show one letter as underlined. To choose an item with the keyboard, press the <Alt> key and the underlined key at the same time. For example, <Alt>**F** denotes the key sequence for opening the **File** menu.

Preparing for MAT 5 Installation

This section provides instructions for setting up the PC, network, and server environment for MAT 5 installation. These steps are required for anyone installing MAT 5 for the first time—even if you are upgrading from MAT 3 or MAT 4.

If you are upgrading from an earlier version of MAT 5, you are already set up for MAT 5. You may skip directly to “Upgrading from an Earlier Version of MAT 5” on page 25.

Step 1: Check PC Hardware and Software

Begin by checking that you have the PC hardware and software for MAT 5.

- 1 Verify that you have an IBM™ or compatible computer (Intel Pentium™ 100 MHz or faster) with the following:
 - 32MB memory
 - 3.5 inch, 1.44MB diskette drive
 - CD ROM drive
 - 1 GB hard disk (500 MB free space recommended; see Appendix A in the *MAT Common Services User Guide*)
 - Network communications hardware, as follows:
 - Ethernet Network Interface card (NIC) if you plan to use Ethernet network communications
 - Ethernet transceiver (if required for the NIC) that matches your cabling and network type
 - Hayes-compatible modem for serial or PPP communications
 - Serial port using 16550 UART technology
 - Parallel printer port (a printer must be configured, even though it is not required to be physically attached to the PC)
 - SVGA graphics monitor with interface card
 - Windows-compatible mouse (a bus mouse)
 - Hardware security dongle (provided by NORTEL)
- 2 Verify that the PC is running Windows 95 software and you have access to installation diskettes for Windows 95 and devices, such as printers. Always use the most recent file version.

Step 2: Set Up Windows 95 Networking for MAT

Next you will need to install the networking software components required for MAT to run correctly. MAT needs these components even for serial connections.

- 1 Open the Network icon in the Windows 95 Control Panel window. Check that the following components are installed:

- Client for Microsoft Networks
- Dial-Up Adapter
- TCP/IP

Note: If Dial-Up Adapter or TCP/IP are currently installed, they will be associated with an interface card.

- 2 If you are missing any of these components, follow the appropriate instructions below to install them.

Installing “Client for Microsoft Networks” component

- From the Network window in the Windows 95 Control Panel, click **Add**.
- Click **Client** and click **Add**.
- Click **Microsoft** from the Manufacturers list and **Client for Microsoft Networks** from the Network Clients list. Click **OK**.
- Click the **Identification** tab and fill in the Computer Name and Workgroup fields with information provided by your network administrator. Click **OK**.
- Go on to install the next missing component. If you are finished installing missing components, click **OK** in the Network window to close it (do not click Cancel or your changes will not be saved).

Note: When you click OK, you may be asked to insert Windows 95 installation diskettes. If the DHCP client dialog box displays, click **No**, then restart the PC and logon to the server if you require network access.

Installing Dial-Up Adapter software

- From the Network window in the Windows 95 Control Panel, click **Add**.
- Click **Adapter** and click **Add**.
- Click **Microsoft** from the Manufacturers list and **Dial-Up Adapter** from the Network Adapters list. Click **OK**.
- Go on to install the next missing component. If you are finished installing missing components, click **OK** in the **Network** window to close it (do not click Cancel or your changes will not be saved).

Note: When you click OK, you may be asked to insert Windows 95 installation diskettes. If the DHCP client dialog box displays, click **No**, then restart the PC and logon to the server if you require network access.

Installing TCP/IP software

- From the Network window in the Windows 95 Control Panel, click **Add**.
- Select Protocol and click **Add** to display the Select Network Protocol window.
- Select Microsoft from the Manufacturers list and TCP/IP from the Network Protocols list. Click **OK**.
- In the Network window, click **OK** (do not click Cancel or your changes will not be saved).

Note: When you click OK, you may be asked to install Windows 95 installation diskettes. If the DHCP client dialog box displays, click **No**, then restart the PC and logon to the server if you require network access.

- 3** When all three components are installed, follow these instructions to activate them.

- Open the Add/Remove Programs icon in the Control Panel window.
- Click the **Windows Setup** tab.
- Open the Communications icon. Make sure that Dial-Up Networking is checked (check it if it is unchecked), then click **OK**.

- In the Add/Remove Programs Properties window, click **OK** to complete the installation.

Step 3: Set Up the Communications Environment

Now you are ready to configure Ethernet, PPP, or Serial communications between the MAT PC and the Meridian 1. Follow the instructions for the connections you require.

Configuring PC Ethernet Communications

- 1 Install the Ethernet Network Interface Card (NIC) in the PC, if not already installed.
- 2 Install the NIC software drivers as specified in the manufacturer's manual.
- 3 Restart the PC.

Configuring PC PPP Communications

- 1 In the Windows 95 Control Panel window, open the Network icon.
- 2 Select Dial-Up Adapter and click **Properties**.
- 3 Click the **Bindings** tab. Make sure that TCP/IP -> Dial-Up Adapter is checked, then click **OK**.
- 4 Click **OK** to close the Network window.
- 5 Go on to "Configuring PC Serial Communications" to install and set up a modem, which is also required by MAT PPP communications.

Configuring PC Serial Communications

- 1 Follow the manufacturer's instructions to install, connect, and configure your modem hardware and software.
- 2 **Important!** Make sure that no other communications devices are configured on the same COM port as the modem to be used for MAT.

Step 4: Set Up the Meridian 1 for Ethernet and PPP

Next you will configure MAT users and Ethernet and PPP connections on the Meridian 1 and install the physical connections between the PC and Meridian 1.

Configuring MAT Users on the Meridian 1

1 Configure LAPW in LD 17:

- If you will be installing the MAT Traffic Analysis application, set the CUST prompt to ALL.
- Ensure that the MAT prompt is set to YES and Read Only is set to No:

```
MAT> yes  
MAT_READ_ONLY> no
```

Note: MAT communicates with the Meridian 1 through LAPW IDs and passwords configured on the Meridian 1.

2 If you are using Ethernet or PPP connections, configure a PTY in LD 17 for each MAT application that will run over Ethernet or PPP simultaneously.

Configuring Ethernet and PPP at the Meridian 1

The host names and IP addresses used in the following instructions are only examples. *Actual host names and IP addresses should conform to your network.*

1 In LD 117, configure an IP address at the Meridian 1.

```
>LD 117  
>NEW HOST M1ACTIVEIP 47.1.1.10  
>CHG ELNK ACTIVE M1ACTIVEIP
```

2 If you are using a backup (inactive) IOP, use LD 117 to configure it as well.

```
>NEW HOST M1INACTIVEIP 47.1.1.11  
>CHG ELNK INACTIVE M1INACTIVEIP
```

3 Configure the subnet mask.

```
>CHG MASK 255.255.255.0
```

- 4 If you have a default gateway in the network, define the routing table in LD 117.

 >LD 117
 NEW ROUTE 0.0.0.0 47.1.1.250
- 5 If you are using PPP, use the default addresses unless there is an address conflict. If a conflict exists, obtain a new IP address from your network administrator and configure this address.

Connecting the PC to the Meridian 1

For more detailed instructions, refer to the *MAT Common Services User Guide*.

- 1 Install the Ethernet or PPP connections between the PC and the Meridian 1.
- 2 Test the Ethernet or PPP connections:

 For Ethernet: “Ping” the various network devices to verify that you can communicate between them.

 For PPP: Make sure that the modem dials and connects successfully without error messages.

Step 5: Set Up a Network Environment

Follow these instructions if you are using an Ethernet connection to the Meridian 1. If you are *not* using an Ethernet connection, skip to “Step 6: Set Up the Server Environment” on page 9.

- 1 Open the Network icon from the Windows 95 Control Panel window
- 2 Select the TCP/IP configuration used for the Ethernet connection, and click **Properties**.
- 3 If you have a router, click the **Gateway** tab, then enter the gateway IP address obtained from your network administrator (if not already entered) and click **Add**.

- 4 Click the **IP Address** tab and fill in the following information, if not already entered:
 - Check the Specify an IP Address box.
 - Enter the IP address (47.1.1.1 in our example).
 - Enter the subnet mask (255.255.255.0 in our example).
- 5 Click **OK**.
- 6 Click **OK** to close the Network property sheet.
- 7 Restart Windows 95.

Step 6: Set Up the Server Environment

In this step you will prepare your current server environment to enable it to support MAT. If you will not be running MAT in a server environment, skip to “Installing the MAT 5 Software” on page 11.

Setting Up a Windows NT Server

- Make sure MAT client PCs have read/write privileges to the directory/drive on the network server where MAT will be installed.

Setting Up a Netware Server

- Make sure MAT client PCs have read/write privileges to the directory/drive on the network server where MAT will be installed.
- Set up the network operating system to support long file names.

Installing the MAT 5 Software

After you have configured the PC, network, and server for MAT 5, you are ready to install the MAT 5 software from the CD provided. If MAT 3 or 4 is currently installed, you will first install MAT 5 and then convert all data to the MAT 5 format. The original data remains in the MATWORK directory so that you can archive it.

WARNING: If you are upgrading to MAT 5, do not run the uninstall program to remove MAT 3 or 4, since this will remove files shared by MAT 5. Converted data cannot be moved back to earlier formats.

Follow the appropriate set of instructions for your type of installation:

To install MAT 5 on a PC that will not be accessing MAT or MAT data over a network see:

- “Installing MAT 5 on a Stand-alone PC” on page 12

To install MAT 5 in a network environment see:

- “Installing MAT 5 on the Server and First Client PC” on page 14
- “Installing MAT on Additional Client PCs” on page 17

Installing MAT 5 on a Stand-alone PC

Follow these instructions to install MAT 5 on PCs that will not be accessing MAT or MAT data from a server.

Note: If you are upgrading from MAT 3 or 4, do not use the same directory locations for MAT 5.

- 1 If you are upgrading from MAT 3 or MAT 4, restore any archived data that you want to migrate to MAT 5. Remove MAT from the StartUp folder:
 - From the **Start** menu, select **Settings** followed by **Taskbar**
 - Click the **Start Menu Programs** tab
 - Click **Remove**
 - In the Programs folder, open StartUp
 - Select **MATShell** and click **Remove**
-
- Note:** No confirmation is presented when you click Remove.
- 2 Shut down Windows 95 and turn off the PC.
- 3 Plug the security dongle into a parallel port on your PC.
- 4 Restart the PC.
- 5 **Important:** Stop any running applications. Close all applications, close the Control Panel, and exit any background tasks.
- 6 Insert the MAT 5 CD into the CD drive.
- 7 Choose **Run** from the Windows 95 **Start** menu.
- 8 In the listbox, enter **d:\disk1\setup** (where d: is the CD drive), and click **OK**.
- 9 After reading the Licensing Agreement, click **Accept**.
- 10 Click **Next** until the Setup Choices window displays.
- 11 Click **Install/Upgrade**.
- 12 Enter the serial number and keycode and click **Next**.

You are asked for the destination drive and path for the following directories:

- Application Executables (MAT 5 executable files)
- Common Data (for example, Site and System data)
- Local Data (for example, PC Event Log)

- 13** Click **Browse** and choose the destination drive and path for each directory (default C:\Nortel).

Note: Once configured, these paths cannot be changed without uninstalling MAT.

- 14** Select the applications that you wish to install, and click **Next**.

If you have installed Traffic Analysis, a readme message appears during installation. Close the window when you are ready to continue.

If you have installed Call Accounting, you are reminded to install the rate tables. Click OK to continue.

- 15** If you have installed Call Accounting, **do not restart the PC** when prompted. Do the following to install the rate tables:

- Choose **Run** from the Windows 95 **Start** menu.
- Insert the Rate Tables disk 1 in the diskette drive.
- In the listbox, enter **a:\setup** (where a: is the diskette drive) and click **OK**.
- At the Welcome screen, click **Next**.
- Select the carriers whose rates are to be installed by clicking next to the carrier name (a checkmark appears). Click **Next**.

- 16** If you have update disks, do the following:

- Choose **Run** from the Windows 95 **Start** menu.
- Insert the first update disk in the diskette drive.
- In the listbox, enter **a:\setup** (where a: is the diskette drive) and click **OK**.

- 17** When installation is complete, restart the PC.

- 18** If you are upgrading from MAT 3 or MAT 4, complete the steps in “Converting Data to MAT 5 Format” on page 19.

- 19** To confirm that MAT is installed correctly and can connect to the Meridian 1 switch, complete the steps in “Validating the MAT Installation” on page 21.

Installing MAT 5 on the Server and First Client PC

Follow these instructions to install MAT 5 in a client-server environment. In this two-step process, you begin by installing MAT on the server and first client PC. When that installation is complete, you can install MAT on additional client PCs. The first client PC functions as the MAT controller. All subsequent MAT upgrades will need to be preformed at this PC.

Note: If you are upgrading from MAT 3 or 4, do not use the same directory locations for MAT 5.

- 1 If you are upgrading from MAT 3 or MAT 4, restore any archived data that you want to migrate to MAT 5. Remove MAT from the StartUp folder:
 - From the **Start** menu, select **Settings** followed by **Taskbar**
 - Click the **Start Menu Programs** tab
 - Click **Remove**
 - In the Programs folder, open StartUp
 - Select **MATShell** and click **Remove**

Note: No confirmation is presented when you click Remove.

- 2 Shut down Windows 95 and turn off the PC.
- 3 Plug the security dongle into a parallel port on your PC.
- 4 Restart the PC.
- 5 **Important:** Stop any running applications. Close all applications, close the Control Panel, and exit any background tasks.
- 6 Map a network drive to the directory on the network server where MAT will be installed. Ensure that this drive is automatically reconnected at logon.
- 7 Insert the MAT 5 CD into the CD drive.
- 8 Choose **Run** from the Windows 95 **Start** menu.
- 9 In the listbox, enter **d:\disk1\setup** (where d: is the CD drive), and click **OK**.
- 10 After reading the Licensing Agreement, click **Accept**.
- 11 Click **Next** until the Setup Choices window displays.

- 12 Click **Install/Upgrade**.
- 13 Enter the serial number and keycode and click **Next**.

Setup will ask for the destination drive and path for the following directories:

 - Application Executables (MAT 5 executable files)
 - Common Data (for example, Site and System data)
 - Local Data (for example, PC Event Log)
- 14 Click **Browse** and choose the local drive and directory where the **Application Executables** are to be installed (C:\Nortel, for example).

Note: Application executables may be installed on the shared drive, however MAT performance will be slower than if these files are installed on the local drive. "Local drive" refers to a drive on your local PC.
- 15 Click **Browse** and choose the shared drive and directory where MAT **Common Data** is to be installed (M:\Nortel, for example).

Note: Common Data files *must* be installed on the server.
- 16 Click **Browse** and choose the local drive and directory where **Local Data** is to be installed (default is C:\Nortel).

Note: Local Data files *must* be installed on the PC hard disk.
- 17 Select the applications that you wish to install, and click **Next**.

If you have installed Traffic Analysis, a readme message appears during installation. Close the window when you are ready to continue.

If you have installed Call Accounting, you are reminded to install the rate tables. Click OK to continue.

- 18** If you have installed Call Accounting, **do not restart the PC** when prompted. Do the following to install the rate tables:
- Choose **Run** from the Windows 95 **Start** menu.
 - Insert the Rate Tables disk 1 in the diskette drive.
 - In the listbox, enter **a:\setup** (where a: is the diskette drive) and click **OK**.
 - At the Welcome screen, click **Next**.
 - Select the carriers whose rates are to be installed by clicking next to the carrier name (a checkmark appears). Then click **Next**.
- 19** If you have update disks, do the following:
- Choose **Run** from the Windows 95 **Start** menu.
 - Insert the first update disk in the diskette drive.
 - In the listbox, enter **a:\setup** (where a: is the diskette drive) and click **OK**.
- 20** After installation is complete, restart the PC.
- 21** If you are upgrading from MAT 3 or MAT 4, complete the steps in “Converting Data to MAT 5 Format” on page 19.
- 22** Go on to “Installing MAT on Additional Client PCs” on page 17.

Installing MAT on Additional Client PCs

After MAT has been installed on the server and one client PC (see previous procedure), follow these instructions to install MAT at each additional client PC.

Note: If you are upgrading from MAT 3 or 4, do not use the same directory locations for MAT 5.

- 1 Shut down Windows 95 and turn off the PC.
- 2 Plug the security dongle into a parallel port on the PC.
- 3 Restart the PC.
- 4 **Important:** Stop any running applications. Close all applications, close the Control Panel, and exit any background tasks.
- 5 Map a network drive to the directory on the network server where MAT will be installed. Ensure that this drive automatically reconnects at logon.
- 6 Insert the MAT 5 CD into the CD drive.
- 7 Choose **Run** from the Windows 95 **Start** menu.
- 8 In the listbox, enter **d:\disk1\setup** (where d: is the CD drive), and click **OK**.
- 9 After reading the Licensing Agreement, click **Accept**.
- 10 Click **Next** until the Setup Choices window displays, then choose **Run from Network**.
- 11 Click **Browse** and choose the local drive and directory where the **Application Executables** are to be installed (C:\Nortel, for example).
“Local drive” refers to a drive on your local PC
Note: If this PC will be accessing MAT Application Executables from a shared drive, choose the drive and directory where these files are installed.
- 12 Click **Browse** and choose the shared drive and directory where MAT **Common Data** was originally installed (for example, M:\Nortel, where M: is the network drive).
- 13 Click **Browse** and choose the local drive and directory where **Local Data** is to be installed (default is C:\Nortel).

- 14** Click **Next** to continue.
- 15** Enter the serial number and keycode and click **Next**.
- 16** Select the applications that you wish to install, and click **Next**.

If you have installed Traffic Analysis, a readme message appears during installation. Close the window when you are ready to continue.

If you have installed Call Accounting, you are reminded to install the rate tables. Click OK to continue.
- 17** If you have installed Call Accounting, **do not restart the PC** when prompted. Do the following to install the rate tables:
- Choose **Run** from the Windows 95 **Start** menu.
 - Insert the Rate Tables disk 1 in the diskette drive.
 - In the listbox, enter **a:\setup** (where a: is the diskette drive) and click **OK**.
 - At the Welcome screen, click **Next**.
 - Select the carriers whose rates are to be installed by clicking next to the carrier name (a checkmark appears). Click **Next**.
- 18** If you have update disks and the MAT Applications are installed on the *client PC* (not the shared drive), do the following:
- Choose **Run** from the Windows 95 **Start** menu.
 - Insert the first update disk in the diskette drive.
 - In the listbox, enter **a:\setup** (where a: is the diskette drive) and click **OK**.
- 19** After installation is complete, restart the PC.
- 20** Complete the steps in "Validating the MAT Installation" on page 21 to confirm that MAT is correctly installed and can connect to the Meridian 1 switch.

Converting Data to MAT 5 Format

If you are upgrading from MAT 3 or 4 to MAT 5, you must convert the communication profiles, user profiles, application data and site data to the MAT 5 format after installing the MAT 5 software.

- 1 Insert the MAT 5 CD into the CD drive.
- 2 Choose **Run** from the Windows 95 **Start** menu.
- 3 In the listbox, enter **d:\disk1\setup** (where d: is the CD drive), and click **OK**.
- 4 After reading the Licensing Agreement, click **Accept**.
- 5 Click **Next** until the Setup Choices window displays, then click **Utilities**.
- 6 Click **Migrate** to convert the data.
- 7 Go to “Validating the MAT Installation” on page 41 and follow the instructions to set up MAT and connect to the Meridian 1 switch.
- 8 After MAT 5 has been working successfully for a while, delete the files under the MATWORK and MAT directories.

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Validating the MAT Installation

After installing MAT 5, follow these steps to connect to the Meridian 1 switch using the sample site and system configuration. Once a successful connection is established, you may refer to the *MAT 5 Common Services User Guide* to configure your own sites and systems.

Step 1: Login and change default password

- 1 Select **MAT** in the Windows 95 **Programs** list in the **Start** menu.

During subsequent operation, MAT will automatically begin as part of the Windows start-up routine.
- 2 Enter the default user ID and password shown below and click **OK**.

User ID: **Admin**
Password: **Admin**

Note: For security purposes, the password does not appear as you type in the Password field.
- 3 Click **OK**.
- 4 If you want to change the default password to ensure security, do the following:
 - In the Navigator window, choose **Change Password** from the **Security** menu.
 - Enter the old password in the Old Password field.
 - Type a new password in the New Password field.
 - Retype the new password in the Confirm Password field, and click **OK**.
 - Click **OK** again to confirm.

You will need to use this password the next time you log into MAT.

Step 2: Set Up Communications Information

- 1 In the Navigator window, double-click Sample Site.
- 2 Select Sample System and choose **Properties** from the **File** menu.
- 3 Click the **Communications** tab and click **Add**.
- 4 From the Type box, select a communications type that will be used by MAT, then enter a Profile Name and click **OK**.
- 5 Fill in the communications information:
 - **For Ethernet:** Select the appropriate network protocol. Enter the IP address that you configured on the Meridian 1. Click **Apply**.
 - **For PPP:** Enter all modem parameters and dialup information. Select PPP in the Modem Script text box. Set the IP address to the local IP address, as configured on the Meridian 1. Click **Apply**.
 - **For Serial:** Enter all modem parameters and dialup information. Select the appropriate value in the Modem Script text box. This will commonly be “None” unless a specific value is defined for your system. Click **Apply**.

Step 3: Set Up Customer Information

- 1 Click the **Customers** tab and click **Properties**.
- 2 Click the **General** tab. In the Scheduler System ID box, change the User ID and Password to one that is valid for logging onto the Meridian 1, then click **OK**.

Step 4: Set Up MAT Applications

Applications must be enabled to make them available in the System window.

- 1 Click the **Applications** tab.
- 2 Enable each MAT application:
 - Select the application.
 - Select a Communications Profile from the drop-down list box.
A checkmark appears in the Enabled checkbox and next to the application name.
- 3 Click **OK** to close System Properties.

Step 5: Set Up System Data Information

- 1 Double-click the **Sample System** icon to open the System window.
- 2 Choose **Update System Data** from the **File** menu.
- 3 Select the options “Update Data Stored in the PC” and “Do it Now,” then click **OK**.

The system data (such as the machine type and M1 packages) is copied into MAT directly from the Meridian 1.

Step 6: Connect to the System

- 1 Choose **Session Connect** from the **File** menu.
The connection status appears in lower right corner of the window.
- 2 After connecting to the Meridian 1, open a MAT application (such as Station Administration or Traffic Analysis) by double-clicking the application icon.
To close an application, click the close box in the upper-right corner of the application window.
Note: If you are not able to open an application, review “Step 4: Set Up MAT Applications” on page 22 and try again.
Congratulations! MAT is successfully installed.
- 3 Refer to the *MAT 5 Common Services User Guide* to configure your own sites and systems.

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Upgrading from an Earlier Version of MAT 5

Follow these procedures to upgrade from an earlier version of MAT 5 which is already installed on the PC.

- 1 Close all MAT applications and terminate MAT. Terminate all background MAT tasks.
- 2 Restart the PC.
- 3 At the MAT login prompt, click **Cancel**.
- 4 **Important:** Stop any running applications. Close all applications, close the Control Panel, and exit any background tasks.
- 5 Insert the MAT 5 CD in the CD drive.
- 6 Choose **Run** from the Windows 95 **Start** menu.
- 7 In the listbox, enter **d:\disk1\setup** (where d: is the CD drive), and click **OK**.
- 8 After reading the Licensing Agreement, click **Accept**.
- 9 Click **Next** until the Setup Choices window displays.
- 10 Click **Install/Upgrade**.
- 11 Enter the serial number and keycode and click **Next**.

The screen displays the destination drive and path for the MAT directories:

- Application Executables (MAT 5 executable files)
- Common Data (for example, Site and System data)
- Local Data (for example, PC Event Log)

Note: You must uninstall MAT if you wish to change these paths after installation.

- 12 Select the applications to be upgraded (always include "Common Services" in your selection), then click **Next**.

- 13 If you have installed Call Accounting, **do not restart the PC** when prompted. Do the following to install the rate tables:
 - Choose **Run** from the Windows 95 **Start** menu.
 - Insert the Rate Tables disk 1 in the diskette drive.
 - In the listbox, enter **a:\setup** (where a: is the diskette drive) and click **OK**.
 - At the Welcome screen, click **Next**.
 - Select the carriers whose rates are to be installed by clicking next to the carrier name (a checkmark appears). Then click **Next**.
- 14 If you have update disks, do the following:
 - Choose **Run** from the Windows 95 **Start** menu.
 - Insert the first update disk in the diskette drive.
 - In the listbox, enter **a:\setup** (where a: is the diskette drive) and click **OK**.
- 15 After the installation is complete, restart the PC.

Adding Applications or Licenses to a Stand-alone PC

When you purchase additional MAT applications or licenses, you are given a new **keycode** which must be entered in order to add these elements to the current MAT installation.

- 1 Close all MAT applications and terminate MAT. Terminate all background MAT tasks.
- 2 Restart the PC.
- 3 At the MAT login prompt, click **Cancel**.
- 4 **Important:** Stop any running applications. Close all applications, close the Control Panel, and exit any background task.
- 5 Insert the MAT 5 CD in the CD drive.
- 6 Choose **Run** from the Windows 95 **Start** menu.
- 7 In the listbox, enter **d:\disk1\setup** (where d: is the CD drive), and click **OK**.
- 8 Click **Next** until the Setup Choices Window displays.
- 9 Click **Install/Upgrade**.
- 10 Enter your new keycode and click **Next**.
The screen displays the destination drive and path for the MAT directories.
- 11 Confirm the packages that you have purchased or the application licenses that you are adding and click **Next**.
- 12 If you are upgrading licenses only, click **Cancel** at the Setup Choices Window, then click **Exit Setup**. This completes your upgrade. Skip the remaining steps (you do not need to restart the PC).

- 13 If you are adding Call Accounting, **do not restart the PC** when prompted. Do the following to install the rate tables:
- Choose **Run** from the Windows 95 **Start** menu.
 - Insert the Rate Tables disk 1 in the diskette drive.
 - In the listbox, enter **a:\setup** (where a: is the diskette drive) and click **OK**.
 - At the Welcome screen, click **Next**.
 - Select the carriers whose rates are to be installed by clicking next to the carrier name (a checkmark appears). Then click **Next**.
- 14 Restart the PC.

Adding Applications or Licenses to Client PCs

When you purchase additional MAT applications or licenses, you are given a new **keycode** which must be entered in order to add these elements to the current MAT installation. Follow these steps to install applications or licenses on client PCs that run MAT from the network.

Step 1: Add Applications or Licenses to First Client PC

- 1 At the PC originally used to install MAT, follow the instructions for “Adding Applications or Licenses to a Stand-alone PC” on page 27).

Step 2: Add Applications or Licenses to Other Client PCs

At each additional client PC use the following instructions to install new applications or licenses.

- 1 Close all MAT applications and terminate MAT. Terminate all background MAT tasks.
- 2 Restart the PC.
- 3 At the MAT login prompt, click **Cancel**.
- 4 **Important:** Stop any running applications. Close all applications, close the Control Panel, and exit any background task.
- 5 Insert the MAT 5 CD in the CD drive.
- 6 Choose **Run** from the Windows 95 **Start** menu.
- 7 In the listbox, enter **d:\disk1\setup** (where d: is the CD drive).
- 8 After reading the Licensing Agreement, click **Accept**.
- 9 Click **Next** until the Setup Choices Window displays, then click **Run from Network**.
- 10 Enter your new keycode and click **Next**.
The screen displays the destination drive and path for the MAT directories.
- 11 Confirm the packages that you have purchased or the application licenses that you are adding and click **Next**.

- 12 If you are upgrading licenses only, click **Cancel** at the Setup Choices Window, then click **Exit Setup**. This completes your upgrade. Skip the remaining steps (you do not need to restart the PC).
- 13 If you are adding Call Accounting, **do not restart the PC** when prompted. Do the following to install the rate tables:
 - Choose **Run** from the Windows 95 **Start** menu.
 - Insert the Rate Tables disk 1 in the diskette drive.
 - At the Welcome screen, click **Next**.
 - Select the carriers whose rates are to be installed by clicking next to the carrier name (a checkmark appears). Then click **Next**.
- 14 Restart the PC.

About MAT Quick Installation Guide

Meridian Administration Tools (MAT) is a portfolio of applications which allow the Meridian 1 system administrator to manage Meridian 1 switches.

This guide provides standard instructions for installing or upgrading to MAT 5. It is intended for experienced PC/Windows 95 users. If you are a less experienced user or want more detailed installation instructions, please refer to the *MAT 5 Common Services User Guide*.

Who should use this guide

Use this guide to install MAT 5 if you are experienced and comfortable working with PC systems using Windows 95. For example, you should know how to use Windows 95 to perform the following types of tasks:

- Navigate directories and move files using the Windows 95 Explorer
- Use the Control Panel to add or remove programs and add network software
- Install and configure a modem if you are using a serial connection to the Meridian 1
- Map a network drive if you are installing MAT on a network

Important! If you are new to Windows 95 or PC systems, follow the instructions provided in the *MAT 5 Common Services User Guide*. The user guide provides detailed illustrations and information to help less experienced users through a MAT 5 installation or upgrade.

What this guide contains

This guide provides instructions for:

- Preparing for MAT 5 installation
- Installing the MAT 5 software
- Validating the MAT 5 installation
- Upgrading from an earlier version of MAT 5
- Adding MAT applications or licenses to an existing MAT 5 installation

Conventions used in this guide

This guide uses the following typographical conventions:

- Angle brackets denote a single keyboard key. For example, <Esc> denotes the Escape key, labeled **Esc** on PC keyboards. A series of angle brackets denote keyboard keys to use simultaneously.
- **This font** is used to designate information you are to enter, buttons you are to click, or menu selections you are to choose.
- Hot keys—Menu commands are available using both the mouse and the keyboard. Menu items show one letter as underlined. To choose an item with the keyboard, press the <Alt> key and the underlined key at the same time. For example, <Alt>**F** denotes the key sequence for opening the **File** menu.

Preparing for MAT 5 Installation

This section provides instructions for setting up the PC, network, and server environment for MAT 5 installation. These steps are required for anyone installing MAT 5 for the first time—even if you are upgrading from MAT 3 or MAT 4.

If you are upgrading from an earlier version of MAT 5, you are already set up for MAT 5. You may skip directly to “Upgrading from an Earlier Version of MAT 5” on page 25.

Step 1: Check PC Hardware and Software

Begin by checking that you have the PC hardware and software for MAT 5.

- 1 Verify that you have an IBM™ or compatible computer (Intel Pentium™ 100 MHz or faster) with the following:
 - 32MB memory
 - 3.5 inch, 1.44MB diskette drive
 - CD ROM drive
 - 1 GB hard disk (500 MB free space recommended; see Appendix A in the *MAT Common Services User Guide*)
 - Network communications hardware, as follows:
 - Ethernet Network Interface card (NIC) if you plan to use Ethernet network communications
 - Ethernet transceiver (if required for the NIC) that matches your cabling and network type
 - Hayes-compatible modem for serial or PPP communications
 - Serial port using 16550 UART technology
 - Parallel printer port (a printer must be configured, even though it is not required to be physically attached to the PC)
 - SVGA graphics monitor with interface card
 - Windows-compatible mouse (a bus mouse)
 - Hardware security dongle (provided by NORTEL)
- 2 Verify that the PC is running Windows 95 software and you have access to installation diskettes for Windows 95 and devices, such as printers. Always use the most recent file version.

Step 2: Set Up Windows 95 Networking for MAT

Next you will need to install the networking software components required for MAT to run correctly. MAT needs these components even for serial connections.

- 1 Open the Network icon in the Windows 95 Control Panel window. Check that the following components are installed:

- Client for Microsoft Networks
- Dial-Up Adapter
- TCP/IP

Note: If Dial-Up Adapter or TCP/IP are currently installed, they will be associated with an interface card.

- 2 If you are missing any of these components, follow the appropriate instructions below to install them.

Installing “Client for Microsoft Networks” component

- From the Network window in the Windows 95 Control Panel, click **Add**.
- Click **Client** and click **Add**.
- Click **Microsoft** from the Manufacturers list and **Client for Microsoft Networks** from the Network Clients list. Click **OK**.
- Click the **Identification** tab and fill in the Computer Name and Workgroup fields with information provided by your network administrator. Click **OK**.
- Go on to install the next missing component. If you are finished installing missing components, click **OK** in the Network window to close it (do not click Cancel or your changes will not be saved).

Note: When you click OK, you may be asked to insert Windows 95 installation diskettes. If the DHCP client dialog box displays, click **No**, then restart the PC and logon to the server if you require network access.

Installing Dial-Up Adapter software

- From the Network window in the Windows 95 Control Panel, click **Add**.
- Click **Adapter** and click **Add**.
- Click **Microsoft** from the Manufacturers list and **Dial-Up Adapter** from the Network Adapters list. Click **OK**.
- Go on to install the next missing component. If you are finished installing missing components, click **OK** in the **Network** window to close it (do not click Cancel or your changes will not be saved).

Note: When you click OK, you may be asked to insert Windows 95 installation diskettes. If the DHCP client dialog box displays, click **No**, then restart the PC and logon to the server if you require network access.

Installing TCP/IP software

- From the Network window in the Windows 95 Control Panel, click **Add**.
- Select Protocol and click **Add** to display the Select Network Protocol window.
- Select Microsoft from the Manufacturers list and TCP/IP from the Network Protocols list. Click **OK**.
- In the Network window, click **OK** (do not click Cancel or your changes will not be saved).

Note: When you click OK, you may be asked to install Windows 95 installation diskettes. If the DHCP client dialog box displays, click **No**, then restart the PC and logon to the server if you require network access.

- 3** When all three components are installed, follow these instructions to activate them.

- Open the Add/Remove Programs icon in the Control Panel window.
- Click the **Windows Setup** tab.
- Open the Communications icon. Make sure that Dial-Up Networking is checked (check it if it is unchecked), then click **OK**.

- In the Add/Remove Programs Properties window, click **OK** to complete the installation.

Step 3: Set Up the Communications Environment

Now you are ready to configure Ethernet, PPP, or Serial communications between the MAT PC and the Meridian 1. Follow the instructions for the connections you require.

Configuring PC Ethernet Communications

- 1 Install the Ethernet Network Interface Card (NIC) in the PC, if not already installed.
- 2 Install the NIC software drivers as specified in the manufacturer's manual.
- 3 Restart the PC.

Configuring PC PPP Communications

- 1 In the Windows 95 Control Panel window, open the Network icon.
- 2 Select Dial-Up Adapter and click **Properties**.
- 3 Click the **Bindings** tab. Make sure that TCP/IP -> Dial-Up Adapter is checked, then click **OK**.
- 4 Click **OK** to close the Network window.
- 5 Go on to "Configuring PC Serial Communications" to install and set up a modem, which is also required by MAT PPP communications.

Configuring PC Serial Communications

- 1 Follow the manufacturer's instructions to install, connect, and configure your modem hardware and software.
- 2 **Important!** Make sure that no other communications devices are configured on the same COM port as the modem to be used for MAT.

Step 4: Set Up the Meridian 1 for Ethernet and PPP

Next you will configure MAT users and Ethernet and PPP connections on the Meridian 1 and install the physical connections between the PC and Meridian 1.

Configuring MAT Users on the Meridian 1

1 Configure LAPW in LD 17:

- If you will be installing the MAT Traffic Analysis application, set the CUST prompt to ALL.
- Ensure that the MAT prompt is set to YES and Read Only is set to No:

```
MAT> yes  
MAT_READ_ONLY> no
```

Note: MAT communicates with the Meridian 1 through LAPW IDs and passwords configured on the Meridian 1.

2 If you are using Ethernet or PPP connections, configure a PTY in LD 17 for each MAT application that will run over Ethernet or PPP simultaneously.

Configuring Ethernet and PPP at the Meridian 1

The host names and IP addresses used in the following instructions are only examples. *Actual host names and IP addresses should conform to your network.*

1 In LD 117, configure an IP address at the Meridian 1.

```
>LD 117  
>NEW HOST M1ACTIVEIP 47.1.1.10  
>CHG ELNK ACTIVE M1ACTIVEIP
```

2 If you are using a backup (inactive) IOP, use LD 117 to configure it as well.

```
>NEW HOST M1INACTIVEIP 47.1.1.11  
>CHG ELNK INACTIVE M1INACTIVEIP
```

3 Configure the subnet mask.

```
>CHG MASK 255.255.255.0
```

- 4 If you have a default gateway in the network, define the routing table in LD 117.

 >LD 117
 NEW ROUTE 0.0.0.0 47.1.1.250
- 5 If you are using PPP, use the default addresses unless there is an address conflict. If a conflict exists, obtain a new IP address from your network administrator and configure this address.

Connecting the PC to the Meridian 1

For more detailed instructions, refer to the *MAT Common Services User Guide*.

- 1 Install the Ethernet or PPP connections between the PC and the Meridian 1.
- 2 Test the Ethernet or PPP connections:

 For Ethernet: “Ping” the various network devices to verify that you can communicate between them.

 For PPP: Make sure that the modem dials and connects successfully without error messages.

Step 5: Set Up a Network Environment

Follow these instructions if you are using an Ethernet connection to the Meridian 1. If you are *not* using an Ethernet connection, skip to “Step 6: Set Up the Server Environment” on page 9.

- 1 Open the Network icon from the Windows 95 Control Panel window
- 2 Select the TCP/IP configuration used for the Ethernet connection, and click **Properties**.
- 3 If you have a router, click the **Gateway** tab, then enter the gateway IP address obtained from your network administrator (if not already entered) and click **Add**.

- 4 Click the **IP Address** tab and fill in the following information, if not already entered:
 - Check the Specify an IP Address box.
 - Enter the IP address (47.1.1.1 in our example).
 - Enter the subnet mask (255.255.255.0 in our example).
- 5 Click **OK**.
- 6 Click **OK** to close the Network property sheet.
- 7 Restart Windows 95.

Step 6: Set Up the Server Environment

In this step you will prepare your current server environment to enable it to support MAT. If you will not be running MAT in a server environment, skip to “Installing the MAT 5 Software” on page 11.

Setting Up a Windows NT Server

- Make sure MAT client PCs have read/write privileges to the directory/drive on the network server where MAT will be installed.

Setting Up a Netware Server

- Make sure MAT client PCs have read/write privileges to the directory/drive on the network server where MAT will be installed.
- Set up the network operating system to support long file names.

Installing the MAT 5 Software

After you have configured the PC, network, and server for MAT 5, you are ready to install the MAT 5 software from the CD provided. If MAT 3 or 4 is currently installed, you will first install MAT 5 and then convert all data to the MAT 5 format. The original data remains in the MATWORK directory so that you can archive it.

WARNING: If you are upgrading to MAT 5, do not run the uninstall program to remove MAT 3 or 4, since this will remove files shared by MAT 5. Converted data cannot be moved back to earlier formats.

Follow the appropriate set of instructions for your type of installation:

To install MAT 5 on a PC that will not be accessing MAT or MAT data over a network see:

- “Installing MAT 5 on a Stand-alone PC” on page 12

To install MAT 5 in a network environment see:

- “Installing MAT 5 on the Server and First Client PC” on page 14
- “Installing MAT on Additional Client PCs” on page 17

Installing MAT 5 on a Stand-alone PC

Follow these instructions to install MAT 5 on PCs that will not be accessing MAT or MAT data from a server.

Note: If you are upgrading from MAT 3 or 4, do not use the same directory locations for MAT 5.

- 1 If you are upgrading from MAT 3 or MAT 4, restore any archived data that you want to migrate to MAT 5. Remove MAT from the StartUp folder:
 - From the **Start** menu, select **Settings** followed by **Taskbar**
 - Click the **Start Menu Programs** tab
 - Click **Remove**
 - In the Programs folder, open StartUp
 - Select **MATShell** and click **Remove**
-
- Note:** No confirmation is presented when you click Remove.
- 2 Shut down Windows 95 and turn off the PC.
- 3 Plug the security dongle into a parallel port on your PC.
- 4 Restart the PC.
- 5 **Important:** Stop any running applications. Close all applications, close the Control Panel, and exit any background tasks.
- 6 Insert the MAT 5 CD into the CD drive.
- 7 Choose **Run** from the Windows 95 **Start** menu.
- 8 In the listbox, enter **d:\disk1\setup** (where d: is the CD drive), and click **OK**.
- 9 After reading the Licensing Agreement, click **Accept**.
- 10 Click **Next** until the Setup Choices window displays.
- 11 Click **Install/Upgrade**.
- 12 Enter the serial number and keycode and click **Next**.

You are asked for the destination drive and path for the following directories:

- Application Executables (MAT 5 executable files)
- Common Data (for example, Site and System data)
- Local Data (for example, PC Event Log)

- 13** Click **Browse** and choose the destination drive and path for each directory (default C:\Nortel).

Note: Once configured, these paths cannot be changed without uninstalling MAT.

- 14** Select the applications that you wish to install, and click **Next**.

If you have installed Traffic Analysis, a readme message appears during installation. Close the window when you are ready to continue.

If you have installed Call Accounting, you are reminded to install the rate tables. Click OK to continue.

- 15** If you have installed Call Accounting, **do not restart the PC** when prompted. Do the following to install the rate tables:

- Choose **Run** from the Windows 95 **Start** menu.
- Insert the Rate Tables disk 1 in the diskette drive.
- In the listbox, enter **a:\setup** (where a: is the diskette drive) and click **OK**.
- At the Welcome screen, click **Next**.
- Select the carriers whose rates are to be installed by clicking next to the carrier name (a checkmark appears). Click **Next**.

- 16** If you have update disks, do the following:

- Choose **Run** from the Windows 95 **Start** menu.
- Insert the first update disk in the diskette drive.
- In the listbox, enter **a:\setup** (where a: is the diskette drive) and click **OK**.

- 17** When installation is complete, restart the PC.

- 18** If you are upgrading from MAT 3 or MAT 4, complete the steps in “Converting Data to MAT 5 Format” on page 19.

- 19** To confirm that MAT is installed correctly and can connect to the Meridian 1 switch, complete the steps in “Validating the MAT Installation” on page 21.

Installing MAT 5 on the Server and First Client PC

Follow these instructions to install MAT 5 in a client-server environment. In this two-step process, you begin by installing MAT on the server and first client PC. When that installation is complete, you can install MAT on additional client PCs. The first client PC functions as the MAT controller. All subsequent MAT upgrades will need to be preformed at this PC.

Note: If you are upgrading from MAT 3 or 4, do not use the same directory locations for MAT 5.

- 1 If you are upgrading from MAT 3 or MAT 4, restore any archived data that you want to migrate to MAT 5. Remove MAT from the StartUp folder:
 - From the **Start** menu, select **Settings** followed by **Taskbar**
 - Click the **Start Menu Programs** tab
 - Click **Remove**
 - In the Programs folder, open StartUp
 - Select **MATShell** and click **Remove**

Note: No confirmation is presented when you click Remove.

- 2 Shut down Windows 95 and turn off the PC.
- 3 Plug the security dongle into a parallel port on your PC.
- 4 Restart the PC.
- 5 **Important:** Stop any running applications. Close all applications, close the Control Panel, and exit any background tasks.
- 6 Map a network drive to the directory on the network server where MAT will be installed. Ensure that this drive is automatically reconnected at logon.
- 7 Insert the MAT 5 CD into the CD drive.
- 8 Choose **Run** from the Windows 95 **Start** menu.
- 9 In the listbox, enter **d:\disk1\setup** (where d: is the CD drive), and click **OK**.
- 10 After reading the Licensing Agreement, click **Accept**.
- 11 Click **Next** until the Setup Choices window displays.

- 12 Click **Install/Upgrade**.
- 13 Enter the serial number and keycode and click **Next**.

Setup will ask for the destination drive and path for the following directories:

 - Application Executables (MAT 5 executable files)
 - Common Data (for example, Site and System data)
 - Local Data (for example, PC Event Log)
- 14 Click **Browse** and choose the local drive and directory where the **Application Executables** are to be installed (C:\Nortel, for example).

Note: Application executables may be installed on the shared drive, however MAT performance will be slower than if these files are installed on the local drive. "Local drive" refers to a drive on your local PC.
- 15 Click **Browse** and choose the shared drive and directory where MAT **Common Data** is to be installed (M:\Nortel, for example).

Note: Common Data files *must* be installed on the server.
- 16 Click **Browse** and choose the local drive and directory where **Local Data** is to be installed (default is C:\Nortel).

Note: Local Data files *must* be installed on the PC hard disk.
- 17 Select the applications that you wish to install, and click **Next**.

If you have installed Traffic Analysis, a readme message appears during installation. Close the window when you are ready to continue.

If you have installed Call Accounting, you are reminded to install the rate tables. Click OK to continue.

- 18** If you have installed Call Accounting, **do not restart the PC** when prompted. Do the following to install the rate tables:
- Choose **Run** from the Windows 95 **Start** menu.
 - Insert the Rate Tables disk 1 in the diskette drive.
 - In the listbox, enter **a:\setup** (where a: is the diskette drive) and click **OK**.
 - At the Welcome screen, click **Next**.
 - Select the carriers whose rates are to be installed by clicking next to the carrier name (a checkmark appears). Then click **Next**.
- 19** If you have update disks, do the following:
- Choose **Run** from the Windows 95 **Start** menu.
 - Insert the first update disk in the diskette drive.
 - In the listbox, enter **a:\setup** (where a: is the diskette drive) and click **OK**.
- 20** After installation is complete, restart the PC.
- 21** If you are upgrading from MAT 3 or MAT 4, complete the steps in “Converting Data to MAT 5 Format” on page 19.
- 22** Go on to “Installing MAT on Additional Client PCs” on page 17.

Installing MAT on Additional Client PCs

After MAT has been installed on the server and one client PC (see previous procedure), follow these instructions to install MAT at each additional client PC.

Note: If you are upgrading from MAT 3 or 4, do not use the same directory locations for MAT 5.

- 1 Shut down Windows 95 and turn off the PC.
- 2 Plug the security dongle into a parallel port on the PC.
- 3 Restart the PC.
- 4 **Important:** Stop any running applications. Close all applications, close the Control Panel, and exit any background tasks.
- 5 Map a network drive to the directory on the network server where MAT will be installed. Ensure that this drive automatically reconnects at logon.
- 6 Insert the MAT 5 CD into the CD drive.
- 7 Choose **Run** from the Windows 95 **Start** menu.
- 8 In the listbox, enter **d:\disk1\setup** (where d: is the CD drive), and click **OK**.
- 9 After reading the Licensing Agreement, click **Accept**.
- 10 Click **Next** until the Setup Choices window displays, then choose **Run from Network**.
- 11 Click **Browse** and choose the local drive and directory where the **Application Executables** are to be installed (C:\Nortel, for example).
“Local drive” refers to a drive on your local PC
Note: If this PC will be accessing MAT Application Executables from a shared drive, choose the drive and directory where these files are installed.
- 12 Click **Browse** and choose the shared drive and directory where MAT **Common Data** was originally installed (for example, M:\Nortel, where M: is the network drive).
- 13 Click **Browse** and choose the local drive and directory where **Local Data** is to be installed (default is C:\Nortel).

- 14** Click **Next** to continue.
- 15** Enter the serial number and keycode and click **Next**.
- 16** Select the applications that you wish to install, and click **Next**.

If you have installed Traffic Analysis, a readme message appears during installation. Close the window when you are ready to continue.

If you have installed Call Accounting, you are reminded to install the rate tables. Click OK to continue.
- 17** If you have installed Call Accounting, **do not restart the PC** when prompted. Do the following to install the rate tables:
- Choose **Run** from the Windows 95 **Start** menu.
 - Insert the Rate Tables disk 1 in the diskette drive.
 - In the listbox, enter **a:\setup** (where a: is the diskette drive) and click **OK**.
 - At the Welcome screen, click **Next**.
 - Select the carriers whose rates are to be installed by clicking next to the carrier name (a checkmark appears). Click **Next**.
- 18** If you have update disks and the MAT Applications are installed on the *client PC* (not the shared drive), do the following:
- Choose **Run** from the Windows 95 **Start** menu.
 - Insert the first update disk in the diskette drive.
 - In the listbox, enter **a:\setup** (where a: is the diskette drive) and click **OK**.
- 19** After installation is complete, restart the PC.
- 20** Complete the steps in "Validating the MAT Installation" on page 21 to confirm that MAT is correctly installed and can connect to the Meridian 1 switch.

Converting Data to MAT 5 Format

If you are upgrading from MAT 3 or 4 to MAT 5, you must convert the communication profiles, user profiles, application data and site data to the MAT 5 format after installing the MAT 5 software.

- 1 Insert the MAT 5 CD into the CD drive.
- 2 Choose **Run** from the Windows 95 **Start** menu.
- 3 In the listbox, enter **d:\disk1\setup** (where d: is the CD drive), and click **OK**.
- 4 After reading the Licensing Agreement, click **Accept**.
- 5 Click **Next** until the Setup Choices window displays, then click **Utilities**.
- 6 Click **Migrate** to convert the data.
- 7 Go to “Validating the MAT Installation” on page 41 and follow the instructions to set up MAT and connect to the Meridian 1 switch.
- 8 After MAT 5 has been working successfully for a while, delete the files under the MATWORK and MAT directories.

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Validating the MAT Installation

After installing MAT 5, follow these steps to connect to the Meridian 1 switch using the sample site and system configuration. Once a successful connection is established, you may refer to the *MAT 5 Common Services User Guide* to configure your own sites and systems.

Step 1: Login and change default password

- 1 Select **MAT** in the Windows 95 **Programs** list in the **Start** menu.
During subsequent operation, MAT will automatically begin as part of the Windows start-up routine.
- 2 Enter the default user ID and password shown below and click **OK**.
User ID: **Admin**
Password: **Admin**
Note: For security purposes, the password does not appear as you type in the Password field.
- 3 Click **OK**.
- 4 If you want to change the default password to ensure security, do the following:
 - In the Navigator window, choose **Change Password** from the **Security** menu.
 - Enter the old password in the Old Password field.
 - Type a new password in the New Password field.
 - Retype the new password in the Confirm Password field, and click **OK**.
 - Click **OK** again to confirm.

You will need to use this password the next time you log into MAT.

Step 2: Set Up Communications Information

- 1 In the Navigator window, double-click Sample Site.
- 2 Select Sample System and choose **Properties** from the **File** menu.
- 3 Click the **Communications** tab and click **Add**.
- 4 From the Type box, select a communications type that will be used by MAT, then enter a Profile Name and click **OK**.
- 5 Fill in the communications information:
 - **For Ethernet:** Select the appropriate network protocol. Enter the IP address that you configured on the Meridian 1. Click **Apply**.
 - **For PPP:** Enter all modem parameters and dialup information. Select PPP in the Modem Script text box. Set the IP address to the local IP address, as configured on the Meridian 1. Click **Apply**.
 - **For Serial:** Enter all modem parameters and dialup information. Select the appropriate value in the Modem Script text box. This will commonly be “None” unless a specific value is defined for your system. Click **Apply**.

Step 3: Set Up Customer Information

- 1 Click the **Customers** tab and click **Properties**.
- 2 Click the **General** tab. In the Scheduler System ID box, change the User ID and Password to one that is valid for logging onto the Meridian 1, then click **OK**.

Step 4: Set Up MAT Applications

Applications must be enabled to make them available in the System window.

- 1 Click the **Applications** tab.
- 2 Enable each MAT application:
 - Select the application.
 - Select a Communications Profile from the drop-down list box.
A checkmark appears in the Enabled checkbox and next to the application name.
- 3 Click **OK** to close System Properties.

Step 5: Set Up System Data Information

- 1 Double-click the **Sample System** icon to open the System window.
- 2 Choose **Update System Data** from the **File** menu.
- 3 Select the options “Update Data Stored in the PC” and “Do it Now,” then click **OK**.

The system data (such as the machine type and M1 packages) is copied into MAT directly from the Meridian 1.

Step 6: Connect to the System

- 1 Choose **Session Connect** from the **File** menu.
The connection status appears in lower right corner of the window.
- 2 After connecting to the Meridian 1, open a MAT application (such as Station Administration or Traffic Analysis) by double-clicking the application icon.
To close an application, click the close box in the upper-right corner of the application window.
Note: If you are not able to open an application, review “Step 4: Set Up MAT Applications” on page 22 and try again.
Congratulations! MAT is successfully installed.
- 3 Refer to the *MAT 5 Common Services User Guide* to configure your own sites and systems.

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Upgrading from an Earlier Version of MAT 5

Follow these procedures to upgrade from an earlier version of MAT 5 which is already installed on the PC.

- 1 Close all MAT applications and terminate MAT. Terminate all background MAT tasks.
- 2 Restart the PC.
- 3 At the MAT login prompt, click **Cancel**.
- 4 **Important:** Stop any running applications. Close all applications, close the Control Panel, and exit any background tasks.
- 5 Insert the MAT 5 CD in the CD drive.
- 6 Choose **Run** from the Windows 95 **Start** menu.
- 7 In the listbox, enter **d:\disk1\setup** (where d: is the CD drive), and click **OK**.
- 8 After reading the Licensing Agreement, click **Accept**.
- 9 Click **Next** until the Setup Choices window displays.
- 10 Click **Install/Upgrade**.
- 11 Enter the serial number and keycode and click **Next**.

The screen displays the destination drive and path for the MAT directories:

- Application Executables (MAT 5 executable files)
- Common Data (for example, Site and System data)
- Local Data (for example, PC Event Log)

Note: You must uninstall MAT if you wish to change these paths after installation.

- 12 Select the applications to be upgraded (always include "Common Services" in your selection), then click **Next**.

- 13** If you have installed Call Accounting, ***do not restart the PC*** when prompted. Do the following to install the rate tables:
- Choose **Run** from the Windows 95 **Start** menu.
 - Insert the Rate Tables disk 1 in the diskette drive.
 - In the listbox, enter **a:\setup** (where a: is the diskette drive) and click **OK**.
 - At the Welcome screen, click **Next**.
 - Select the carriers whose rates are to be installed by clicking next to the carrier name (a checkmark appears). Then click **Next**.
- 14** If you have update disks, do the following:
- Choose **Run** from the Windows 95 **Start** menu.
 - Insert the first update disk in the diskette drive.
 - In the listbox, enter **a:\setup** (where a: is the diskette drive) and click **OK**.
- 15** After the installation is complete, restart the PC.

Adding Applications or Licenses to a Stand-alone PC

When you purchase additional MAT applications or licenses, you are given a new **keycode** which must be entered in order to add these elements to the current MAT installation.

- 1 Close all MAT applications and terminate MAT. Terminate all background MAT tasks.
- 2 Restart the PC.
- 3 At the MAT login prompt, click **Cancel**.
- 4 **Important:** Stop any running applications. Close all applications, close the Control Panel, and exit any background task.
- 5 Insert the MAT 5 CD in the CD drive.
- 6 Choose **Run** from the Windows 95 **Start** menu.
- 7 In the listbox, enter **d:\disk1\setup** (where d: is the CD drive), and click **OK**.
- 8 Click **Next** until the Setup Choices Window displays.
- 9 Click **Install/Upgrade**.
- 10 Enter your new keycode and click **Next**.
The screen displays the destination drive and path for the MAT directories.
- 11 Confirm the packages that you have purchased or the application licenses that you are adding and click **Next**.
- 12 If you are upgrading licenses only, click **Cancel** at the Setup Choices Window, then click **Exit Setup**. This completes your upgrade. Skip the remaining steps (you do not need to restart the PC).

- 13 If you are adding Call Accounting, **do not restart the PC** when prompted. Do the following to install the rate tables:
- Choose **Run** from the Windows 95 **Start** menu.
 - Insert the Rate Tables disk 1 in the diskette drive.
 - In the listbox, enter **a:\setup** (where a: is the diskette drive) and click **OK**.
 - At the Welcome screen, click **Next**.
 - Select the carriers whose rates are to be installed by clicking next to the carrier name (a checkmark appears). Then click **Next**.
- 14 Restart the PC.

Adding Applications or Licenses to Client PCs

When you purchase additional MAT applications or licenses, you are given a new **keycode** which must be entered in order to add these elements to the current MAT installation. Follow these steps to install applications or licenses on client PCs that run MAT from the network.

Step 1: Add Applications or Licenses to First Client PC

- 1 At the PC originally used to install MAT, follow the instructions for "Adding Applications or Licenses to a Stand-alone PC" on page 27).

Step 2: Add Applications or Licenses to Other Client PCs

At each additional client PC use the following instructions to install new applications or licenses.

- 1 Close all MAT applications and terminate MAT. Terminate all background MAT tasks.
- 2 Restart the PC.
- 3 At the MAT login prompt, click **Cancel**.
- 4 **Important:** Stop any running applications. Close all applications, close the Control Panel, and exit any background task.
- 5 Insert the MAT 5 CD in the CD drive.
- 6 Choose **Run** from the Windows 95 **Start** menu.
- 7 In the listbox, enter **d:\disk1\setup** (where d: is the CD drive).
- 8 After reading the Licensing Agreement, click **Accept**.
- 9 Click **Next** until the Setup Choices Window displays, then click **Run from Network**.
- 10 Enter your new keycode and click **Next**.
The screen displays the destination drive and path for the MAT directories.
- 11 Confirm the packages that you have purchased or the application licenses that you are adding and click **Next**.

- 12 If you are upgrading licenses only, click **Cancel** at the Setup Choices Window, then click **Exit Setup**. This completes your upgrade. Skip the remaining steps (you do not need to restart the PC).
- 13 If you are adding Call Accounting, **do not restart the PC** when prompted. Do the following to install the rate tables:
 - Choose **Run** from the Windows 95 **Start** menu.
 - Insert the Rate Tables disk 1 in the diskette drive.
 - At the Welcome screen, click **Next**.
 - Select the carriers whose rates are to be installed by clicking next to the carrier name (a checkmark appears). Then click **Next**.
- 14 Restart the PC.